

SEQUENCE LISTING

5 <110> Cheresh, David A
Paul, Robert
Eliceiri, Brian

<120> Methods Useful for Treating Vascular Leakage
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<150> PCT/US99/11780
<151> 1999-05-28

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25 <170> PatentIn Ver. 2.0

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| | Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg Arg Arg Ser Leu | |
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| | Pro Asn Lys Thr Ala Ala Pro Asp Thr His Arg Thr Pro Ser Arg Ser | |
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| | Phe Gly Thr Val Ala Thr Glu Pro Lys Leu Phe Gly Gly Phe Asn Thr | |
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| | Ser Asp Thr Val Thr Ser Pro Gln Arg Ala Gly Ala Leu Ala Gly Gly | |
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| | Tyr Ile Pro Ser Asn Tyr Val Ala Pro Ser Asp Ser Ile Gln Ala Glu | |
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| | Glu Trp Tyr Phe Gly Lys Ile Thr Arg Arg Glu Ser Glu Arg Leu Leu | |
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| 60 | acg aca aaa ggt gcc tat tgc ctc tcc gtt tct gac ttt gac aac gcc | 693 |
| | Thr Thr Lys Gly Ala Tyr Cys Leu Ser Val Ser Asp Phe Asp Asn Ala | |
| | 180 185 190 | |

| | | |
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| | Lys Gly Leu Asn Val Lys His Tyr Lys Ile Arg Lys Leu Asp Ser Gly | |
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| 5 | ggc ttc tac atc acc tca cgc aca cag ttc agc agc ctg cag cag ctg | 789 |
| | Gly Phe Tyr Ile Thr Ser Arg Thr Gln Phe Ser Ser Leu Gln Gln Leu | |
| | 215 220 225 | |
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| | Val Ala Tyr Tyr Ser Lys His Ala Asp Gly Leu Cys His Arg Leu Thr | |
| | 230 235 240 | |
| 15 | aac gtc tgc ccc acg tcc aag ccc cag acc cag gga ctc gcc aag gac | 885 |
| | Asn Val Cys Pro Thr Ser Lys Pro Gln Thr Gln Gly Leu Ala Lys Asp | |
| | 245 250 255 | |
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| | Ala Trp Glu Ile Pro Arg Glu Ser Leu Arg Leu Glu Val Lys Leu Gly | |
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| | Gln Gly Cys Phe Gly Glu Val Trp Met Gly Thr Trp Asn Gly Thr Thr | |
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| 30 | aga gtg gcc ata aag act ctg aag ccc ggc acc atg tcc ccg gag gcc | 1029 |
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| 35 | ttc ctg cag gaa gcc caa gtg atg aag aag ctc cgg cat gag aag ctg | 1077 |
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| | Val Gln Leu Tyr Ala Val Val Ser Glu Glu Pro Ile Tyr Ile Val Thr | |
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| 55 | gca tcc ggc atg gcc tat gtg gag agg atg aac tac gtg cac cga gac | 1269 |
| | Ala Ser Gly Met Ala Tyr Val Glu Arg Met Asn Tyr Val His Arg Asp | |
| | 375 380 385 | |
| 60 | ctg cgg gcg gcc aac atc ctg gtg ggg gag aac ctg gtg tgc aag gtg | 1317 |
| | Leu Arg Ala Ala Asn Ile Leu Val Gly Glu Asn Leu Val Cys Lys Val | |
| | 390 395 400 | |

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 Cys Pro Pro Glu Cys Pro Glu Ser Leu His Asp Leu Met Cys Gln Cys
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 Phe Leu Glu Asp Tyr Phe Thr Ser Thr Glu Pro Gln Tyr Gln Pro Gly
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 35 40 45

50 Arg Ser Phe Gly Thr Val Ala Thr Glu Pro Lys Leu Phe Gly Gly Phe
 50 55 60

| | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | Asn | Thr | Ser | Asp | Thr | Val | Thr | Ser | Pro | Gln | Arg | Ala | Gly | Ala | Leu | Ala | |
| | 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| 5 | Gly | Gly | Val | Thr | Thr | Phe | Val | Ala | Leu | Tyr | Asp | Tyr | Glu | Ser | Arg | Thr | |
| | | | | | 85 | | | | | 90 | | | | | 95 | | |
| | Glu | Thr | Asp | Leu | Ser | Phe | Lys | Lys | Gly | Glu | Arg | Leu | Gln | Ile | Val | Asn | |
| | | | | 100 | | | | | 105 | | | | | 110 | | | |
| 10 | Asn | Thr | Glu | Gly | Asp | Trp | Trp | Leu | Ala | His | Ser | Leu | Thr | Thr | Gly | Gln | |
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| | Thr | Gly | Tyr | Ile | Pro | Ser | Asn | Tyr | Val | Ala | Pro | Ser | Asp | Ser | Ile | Gln | |
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| 15 | Ala | Glu | Glu | Trp | Tyr | Phe | Gly | Lys | Ile | Thr | Arg | Arg | Glu | Ser | Glu | Arg | |
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| | Leu | Leu | Leu | Asn | Pro | Glu | Asn | Pro | Arg | Gly | Thr | Phe | Leu | Val | Arg | Glu | |
| 20 | | | | 165 | | | | | | 170 | | | | | 175 | | |
| | Ser | Glu | Thr | Thr | Lys | Gly | Ala | Tyr | Cys | Leu | Ser | Val | Ser | Asp | Phe | Asp | |
| | | | | 180 | | | | | 185 | | | | | 190 | | | |
| 25 | Asn | Ala | Lys | Gly | Leu | Asn | Val | Lys | His | Tyr | Lys | Ile | Arg | Lys | Leu | Asp | |
| | | | 195 | | | | | 200 | | | | | 205 | | | | |
| | Ser | Gly | Gly | Phe | Tyr | Ile | Thr | Ser | Arg | Thr | Gln | Phe | Ser | Ser | Leu | Gln | |
| | | 210 | | | | | 215 | | | | | 220 | | | | | |
| 30 | Gln | Leu | Val | Ala | Tyr | Tyr | Ser | Lys | His | Ala | Asp | Gly | Leu | Cys | His | Arg | |
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| | Leu | Thr | Asn | Val | Cys | Pro | Thr | Ser | Lys | Pro | Gln | Thr | Gln | Gly | Leu | Ala | |
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| | Lys | Asp | Ala | Trp | Glu | Ile | Pro | Arg | Glu | Ser | Leu | Arg | Leu | Glu | Val | Lys | |
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| | Thr | Thr | Arg | Val | Ala | Ile | Lys | Thr | Leu | Lys | Pro | Gly | Thr | Met | Ser | Pro | |
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| 45 | Glu | Ala | Phe | Leu | Gln | Glu | Ala | Gln | Val | Met | Lys | Lys | Leu | Arg | His | Glu | |
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| | Val | Thr | Glu | Tyr | Met | Ser | Lys | Gly | Ser | Leu | Leu | Asp | Phe | Leu | Lys | Gly | |
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TSRI 651.3

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| | | |
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| 5 | Gln Ile Ala Ser Gly Met Ala Tyr Val Glu Arg Met Asn Tyr Val His | 370 375 380 |
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| | Thr Ala Arg Gln Gly Ala Lys Phe Pro Ile Lys Trp Thr Ala Pro Glu | 420 425 430 |
| 15 | Ala Ala Leu Tyr Gly Arg Phe Thr Ile Lys Ser Asp Val Trp Ser Phe | 435 440 445 |
| 20 | Gly Ile Leu Leu Thr Glu Leu Thr Thr Lys Gly Arg Val Pro Tyr Pro | 450 455 460 |
| | Gly Met Val Asn Arg Glu Val Leu Asp Gln Val Glu Arg Gly Tyr Arg | 465 470 475 480 |
| 25 | Met Pro Cys Pro Pro Glu Cys Pro Glu Ser Leu His Asp Leu Met Cys | 485 490 495 |
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    Glu Cys Ile Ala Lys Tyr Asn Phe His Gly Thr Ala Glu Gln Asp Leu
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20 ccc aac tgg tac aaa gcc aaa aac aag gtg ggc cgt gag ggc atc atc 313
    Pro Asn Trp Tyr Lys Ala Lys Asn Lys Val Gly Arg Glu Gly Ile Ile
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25 cca gcc aac tac gtc cag aag cgg gag ggc gtg aag gcg ggt acc aaa 361
    Pro Ala Asn Tyr Val Gln Lys Arg Glu Gly Val Lys Ala Gly Thr Lys
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        95             100             105
40 agc acc aac tac ccc gga gac tac acg ctg tgc gtg agc tgc gac ggc 505
    Ser Thr Asn Tyr Pro Gly Asp Tyr Thr Leu Cys Val Ser Cys Asp Gly
        110             115             120
45 aag gtg gag cac tac cgc atc atg tac cat gcc agc aag ctc agc atc 553
    Lys Val Glu His Tyr Arg Ile Met Tyr His Ala Ser Lys Leu Ser Ile
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50 gac gag gag gtg tac ttt gag aac ctc atg cag ctg gtg gag cac tac 601
    Asp Glu Glu Val Tyr Phe Glu Asn Leu Met Gln Leu Val Glu His Tyr
        145             150             155
55 acc tca gac gca gat gga ctc tgt acg cgc ctc att aaa cca aag gtc 649
    Thr Ser Asp Ala Asp Gly Leu Cys Thr Arg Leu Ile Lys Pro Lys Val
        160             165             170
60 atg gag ggc aca gtg gcg gcc cag gat gag ttc tac cgc agc ggc tgg 697
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| | | | | | | | | | | | | | | | | | | |
|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | | gcc | ctg | aac | atg | aag | gag | ctg | aag | ctg | ctg | cag | acc | atc | ggg | aag | ggg | 745 |
| | | Ala | Leu | Asn | Met | Lys | Glu | Leu | Lys | Leu | Leu | Gln | Thr | Ile | Gly | Lys | Gly | |
| | | 190 | | | | | | 195 | | | | | 200 | | | | | |
| 5 | | gag | ttc | gga | gac | gtg | atg | ctg | ggc | gat | tac | cga | ggg | aac | aaa | gtc | gcc | 793 |
| | | Glu | Phe | Gly | Asp | Val | Met | Leu | Gly | Asp | Tyr | Arg | Gly | Asn | Lys | Val | Ala | |
| | | 205 | | | | | 210 | | | | | 215 | | | | | 220 | |
| 10 | | gtc | aag | tgc | att | aag | aac | gac | gcc | act | gcc | cag | gcc | ttc | ctg | gct | gaa | 841 |
| | | Val | Lys | Cys | Ile | Lys | Asn | Asp | Ala | Thr | Ala | Gln | Ala | Phe | Leu | Ala | Glu | |
| | | | | | | 225 | | | | | 230 | | | | | 235 | | |
| 15 | | gcc | tca | gtc | atg | acg | caa | ctg | cgg | cat | agc | aac | ctg | gtg | cag | ctc | ctg | 889 |
| | | Ala | Ser | Val | Met | Thr | Gln | Leu | Arg | His | Ser | Asn | Leu | Val | Gln | Leu | Leu | |
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| | | Gly | Val | Ile | Val | Glu | Glu | Lys | Gly | Gly | Leu | Tyr | Ile | Val | Thr | Glu | Tyr | |
| | | | | 255 | | | | | 260 | | | | | 265 | | | | |
| 25 | | atg | gcc | aag | ggg | agc | ctt | gtg | gac | tac | ctg | cgg | tct | agg | ggt | cgg | tca | 985 |
| | | Met | Ala | Lys | Gly | Ser | Leu | Val | Asp | Tyr | Leu | Arg | Ser | Arg | Gly | Arg | Ser | |
| | | 270 | | | | | | 275 | | | | | 280 | | | | | |
| 30 | | gtg | ctg | ggc | gga | gac | tgt | ctc | ctc | aag | ttc | tcg | cta | gat | gtc | tgc | gag | 1033 |
| | | Val | Leu | Gly | Gly | Asp | Cys | Leu | Leu | Lys | Phe | Ser | Leu | Asp | Val | Cys | Glu | |
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| 35 | | gcc | atg | gaa | tac | ctg | gag | ggc | aac | aat | ttc | gtg | cat | cga | gac | ctg | gct | 1081 |
| | | Ala | Met | Glu | Tyr | Leu | Glu | Gly | Asn | Asn | Phe | Val | His | Arg | Asp | Leu | Ala | |
| | | | | | | 305 | | | | | 310 | | | | | 315 | | |
| 40 | | gcc | cgc | aat | gtg | ctg | gtg | tct | gag | gac | aac | gtg | gcc | aag | gtc | agc | gac | 1129 |
| | | Ala | Arg | Asn | Val | Leu | Val | Ser | Glu | Asp | Asn | Val | Ala | Lys | Val | Ser | Asp | |
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| 45 | | ttt | ggt | ctc | acc | aag | gag | gcg | tcc | agc | acc | cag | gac | acg | ggc | aag | ctg | 1177 |
| | | Phe | Gly | Leu | Thr | Lys | Glu | Ala | Ser | Ser | Thr | Gln | Asp | Thr | Gly | Lys | Leu | |
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| 50 | | cca | gtc | aag | tgg | aca | gcc | cct | gag | gcc | ctg | aga | gag | aag | aaa | ttc | tcc | 1225 |
| | | Pro | Val | Lys | Trp | Thr | Ala | Pro | Glu | Ala | Leu | Arg | Glu | Lys | Lys | Phe | Ser | |
| | | 350 | | | | | | 355 | | | | | 360 | | | | | |
| 55 | | act | aag | tct | gac | gtg | tgg | agt | ttc | gga | atc | ctt | ctc | tgg | gaa | atc | tac | 1273 |
| | | Thr | Lys | Ser | Asp | Val | Trp | Ser | Phe | Gly | Ile | Leu | Leu | Trp | Glu | Ile | Tyr | |
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| 60 | | tcc | ttt | ggg | cga | gtg | cct | tat | cca | aga | att | ccc | ctg | aag | gac | gtc | gtc | 1321 |
| | | Ser | Phe | Gly | Arg | Val | Pro | Tyr | Pro | Arg | Ile | Pro | Leu | Lys | Asp | Val | Val | |
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Pro Arg Val Glu Lys Gly Tyr Lys Met Asp Ala Pro Asp Gly Cys Pro
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5   ccc gca gtc tat gaa gtc atg aag aac tgc tgg cac ctg gac gcc gcc 1417
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10  atg cgg ccc tcc ttc cta cag ctc cga gag cag ctt gag cac atc aaa 1465
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acc cac gag ctg cac ctg tgacggctgg cctccgcctg ggatcatgggc1513
Thr His Glu Leu His Leu
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50 Lys Tyr Asn Phe His Gly Thr Ala Glu Gln Asp Leu Pro Phe Cys Lys
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| | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | Gly | Asp | Val | Leu | Thr | Ile | Val | Ala | Val | Thr | Lys | Asp | Pro | Asn | Trp | Tyr | |
| | | | 35 | | | | | 40 | | | | | 45 | | | | |
| 5 | Lys | Ala | Lys | Asn | Lys | Val | Gly | Arg | Glu | Gly | Ile | Ile | Pro | Ala | Asn | Tyr | |
| | | 50 | | | | | 55 | | | | | 60 | | | | | |
| | Val | Gln | Lys | Arg | Glu | Gly | Val | Lys | Ala | Gly | Thr | Lys | Leu | Ser | Leu | Met | |
| | 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
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| 25 | aag | ttg | aca | act | gtg | tgt | cca | act | gtg | aaa | cct | cag | act | caa | ggg | cta | 1002 |
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| 40 | gga | acc | acg | aaa | gta | gca | atc | aaa | aca | cta | aaa | cca | ggg | aca | atg | atg | 1146 |
| | Gly | Thr | Thr | Lys | Val | Ala | Ile | Lys | Thr | Leu | Lys | Pro | Gly | Thr | Met | Met | |
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| 55 | att | gtc | act | gaa | ttt | atg | tca | aaa | gga | agc | tta | tta | gat | ttc | ctt | aag | 1290 |
| | Ile | Val | Thr | Glu | Phe | Met | Ser | Lys | Gly | Ser | Leu | Leu | Asp | Phe | Leu | Lys | |
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| 5 | cac cga gat ctt cgg gct gct aat att ctt gta gga gaa aat ctt gtg | 1434 |
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| 55 | atctgccaaa atataaagaa cttgtgtaga ttttctacag gaatcaaaag aagaaaatct | 1926 |
| | tctttactct gcatgttttt aatggtaaac tggaatccca gatatgggtg cacaaaacca | 1986 |
| 60 | cttttttttc cccaagtatt aaactctaata gtaccaatga tgaatttatc agcgtatttc | 2046 |
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50 Val Pro Ser Ser Tyr Pro Ala Gly Leu Thr Gly Gly Val Thr Ile Phe
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| | | | | | 165 | | | | | 170 | | | | | 175 | |
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